

SYSTEM **P**LANNING & **A**NALYSIS **R**eport

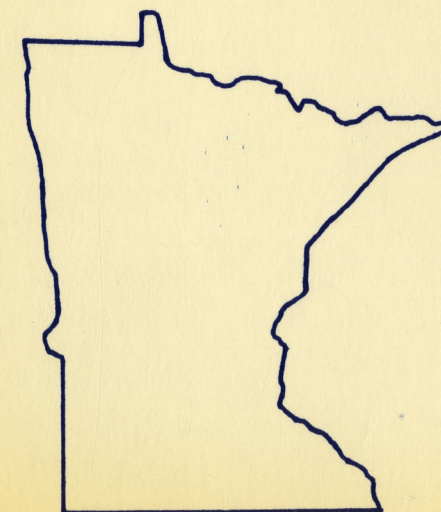
S-19

T. H. 494, 694
MISSISSIPPI RIVER TO T. H. 212

S. P. 8285

JULY, 1970

PREPARED BY
OFFICE OF SYSTEM PLANNING



**MINNESOTA
DEPARTMENT
OF HIGHWAYS**

DEPARTMENT HIGHWAY - Statewide Plan. Sect.

Office Memorandum

TO : Paul G. Velz
Road Design Engineer

DATE: July 30, 1970

FROM : Morris Gildemeister, Chief
Statewide Planning Section

SUBJECT: T.H. 494 - Mississippi River to T.H. 212
S.P. 8285
System Planning & Analysis Report S-19

The Statewide Planning Section transmits this report in response to R. T. Peterson's April 23, 1970 request for 1995 ADT, DHV, and HCADT for the project location shown on the map on page 2.

The estimated 1985 ADT volumes are shown on the map on page 3.

For each numbered segment on the map on page 3, the following data are tabulated on pages 4-7:

- (a) Total ADT
- (b) Vehicle Type Distribution
- (c) Total HCADT

Projected traffic for 1995 may be obtained by expanding the enclosed volumes by 25 percent.

Segment 1 has the highest 1985 ADT on this project. The 1968 ADT for this segment is 23,000.

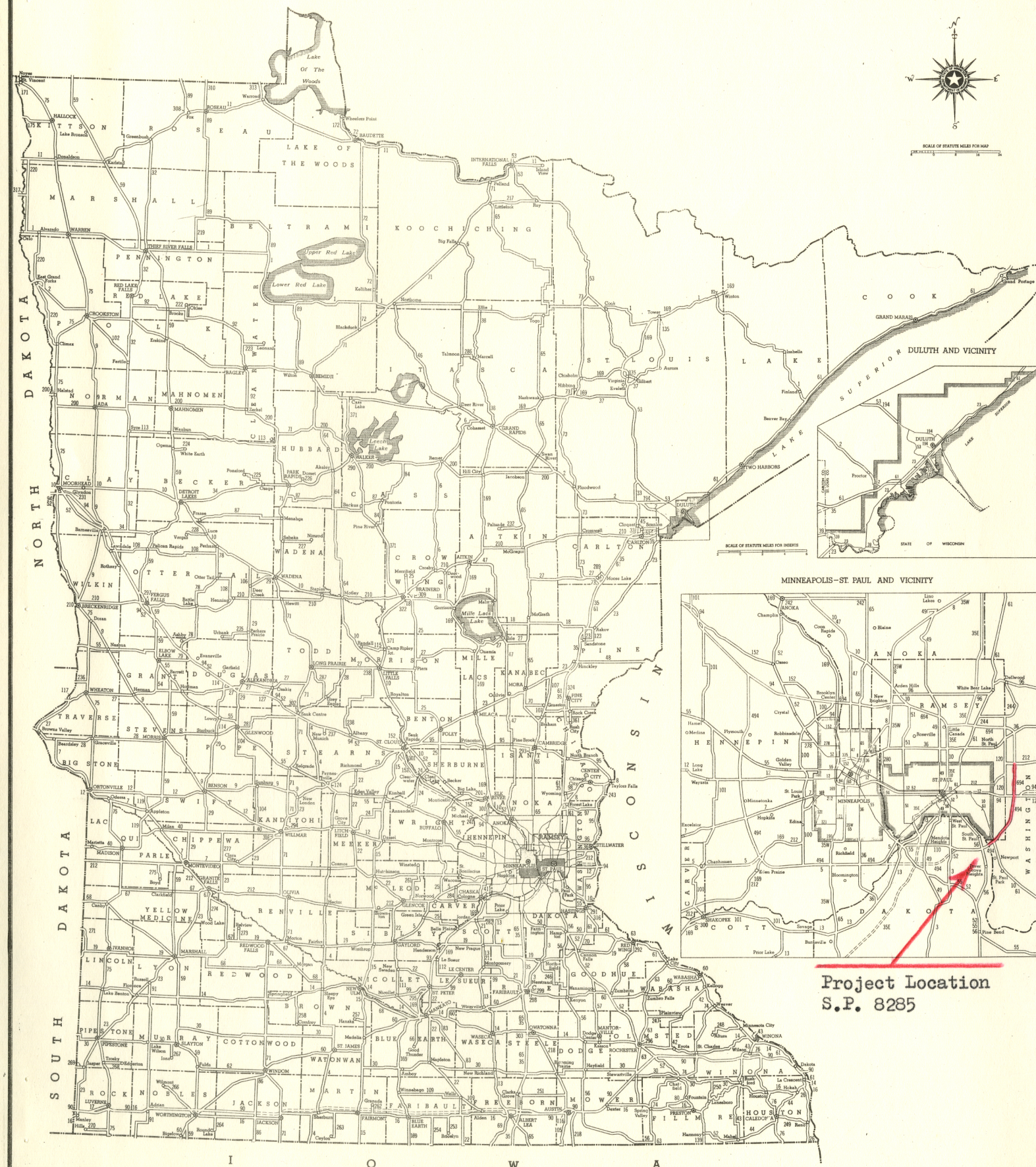
The basic data, method and assumptions used to prepare this report are on page 8.

Morris Gildemeister

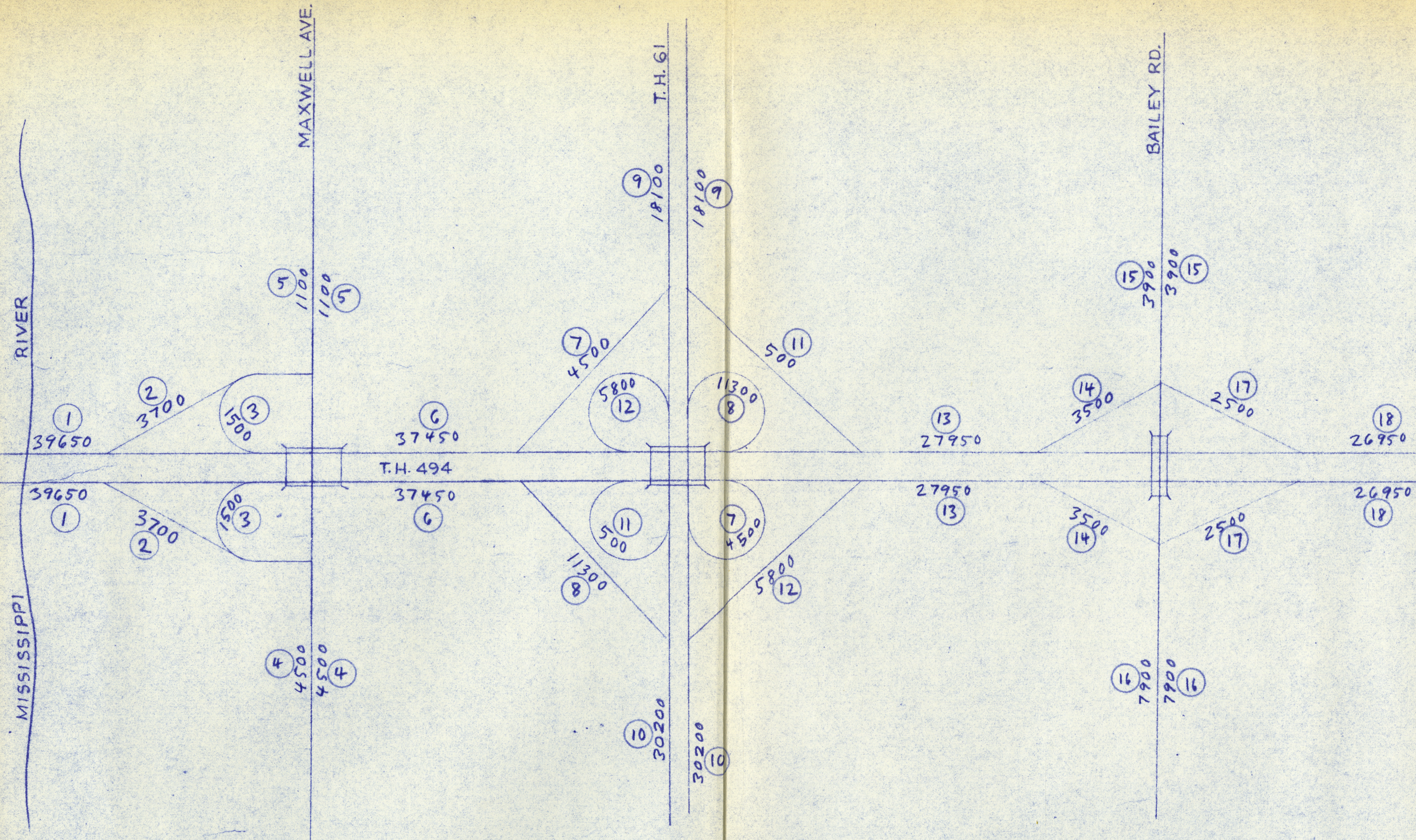
Morris Gildemeister, Chief
Statewide Planning Section

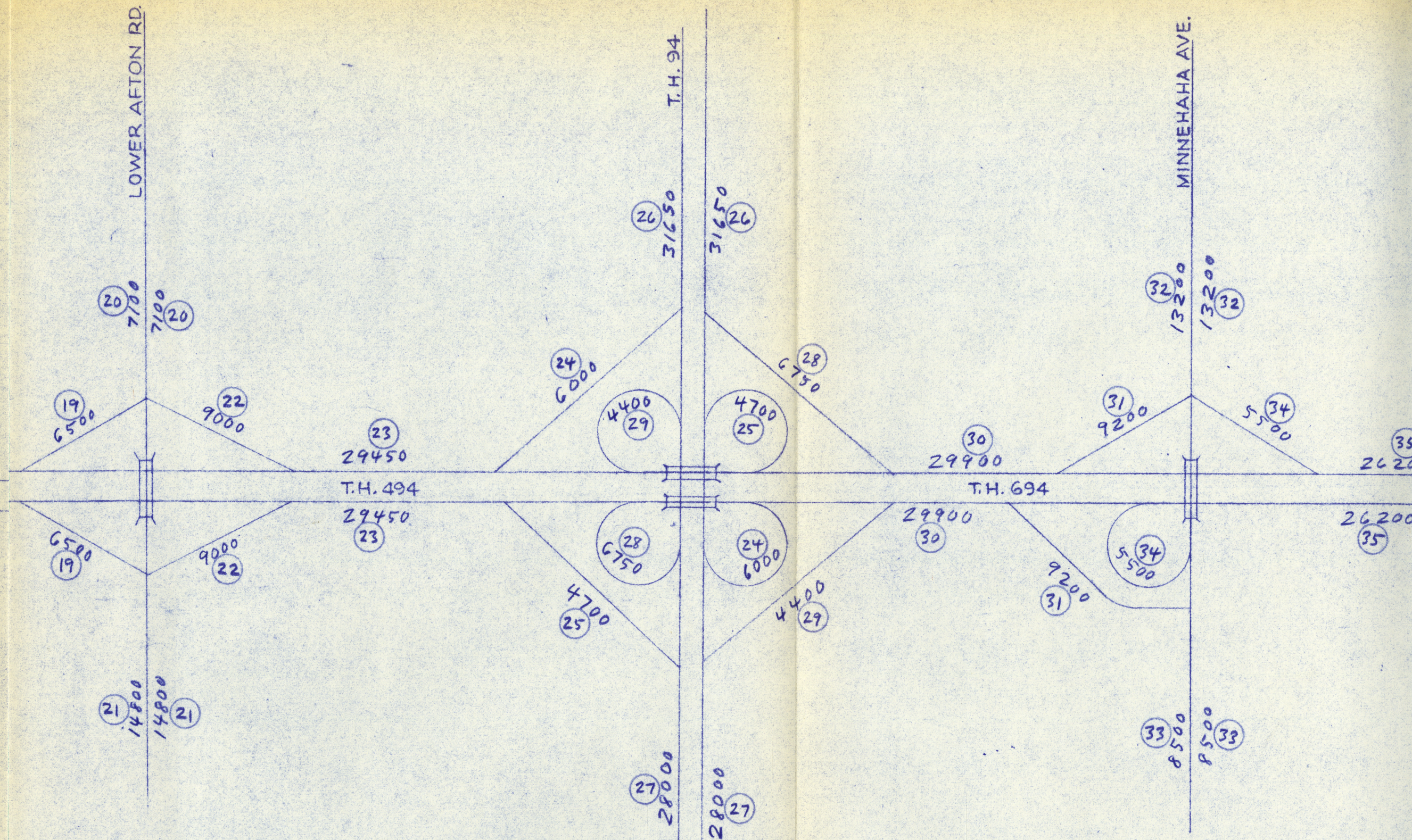
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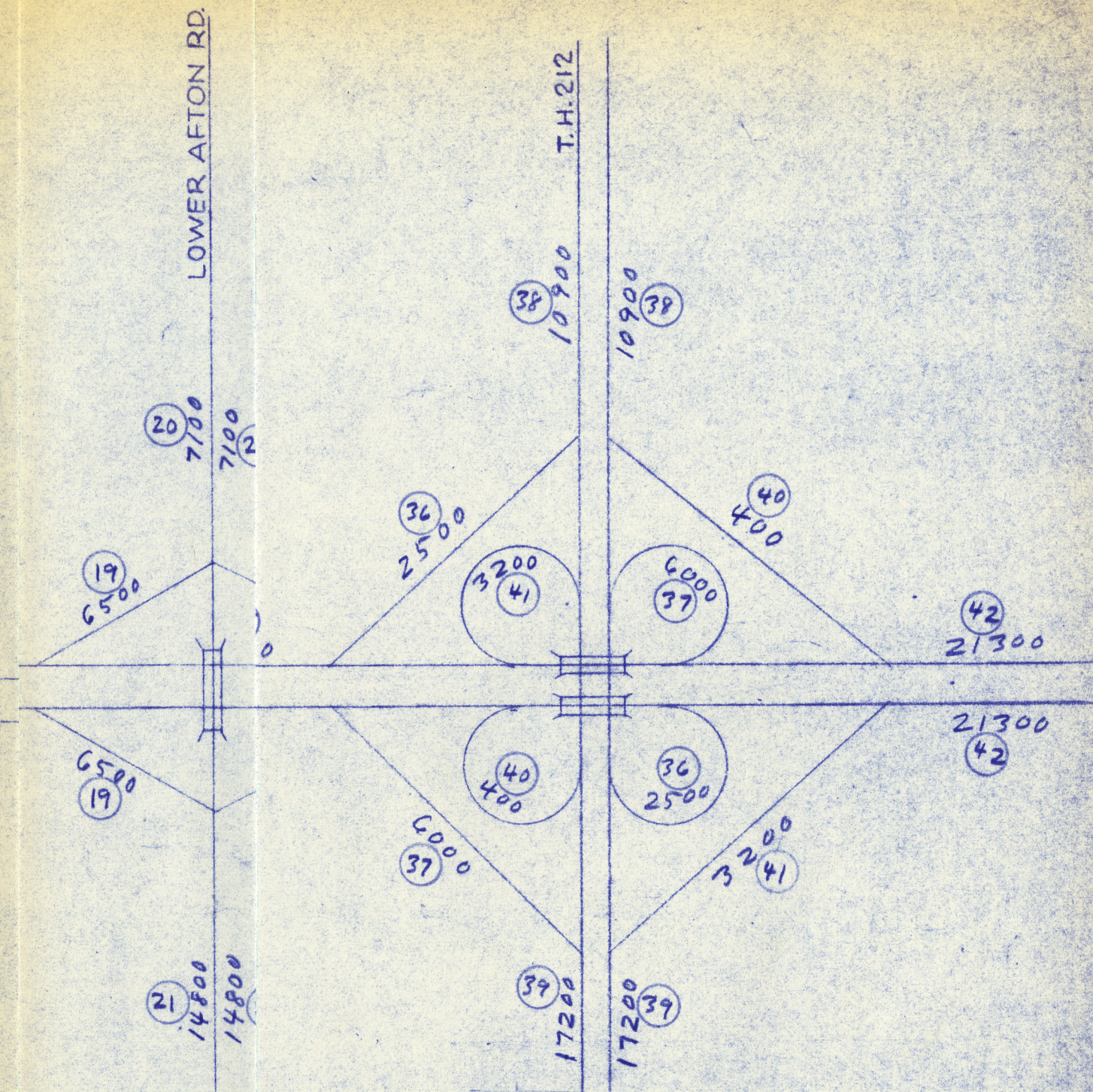
STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
WORK MAP



Project Location
S.P. 8285







S-19

July, 1970

T.H. 494, 694

Legend

Segment Number. ①
 1985 ADT. 39650

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 1 OF 4

FOR

T.H. 494, 694 S.P. 8285 LENGTH - MILES
COUNTY Washington, Ramsey LOCATION Mississippi River to T.H. 212

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	37411	3522	1410	4268	1064	35299	4285	10654	17207	28600	476
1	732	111	57	137	31	678	55	278	352	687	20
2	565	38	23	56	5	550	34	64	104	161	4
3	60	3	2	5	-	59	5	30	34	73	-
4	199	1	-	1	-	198	20	78	72	160	-
5	501	2	1	3	-	500	90	159	253	398	-
6	182	23	7	30	-	166	11	37	78	121	-
TOTAL ADT	39650	3700	1500	4500	1100	37450	4500	11300	18100	30200	500
TOTAL H. COMM. ADT	2239	178	90	232	36	2151	215	646	893	1600	24
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 2 OF 4

FOR

T.H. 494, 694 S.P. 8285 LENGTH - MILES
COUNTY Washington, Ramsey LOCATION Mississippi River to T.H. 212

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 22 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17	18	19	20	21	22
0	5500	26336	3359	3714	7529	2417	25394	6093	6814	14208	8635
1	132	497	55	91	157	43	485	172	161	255	184
2	31	487	21	10	35	12	478	78	73	60	43
3	14	38	4	6	15	5	39	17	15	27	17
4	30	130	3	26	35	6	133	24	11	55	32
5	76	327	48	35	91	7	286	77	10	122	53
6	17	135	10	18	38	10	135	39	16	73	36
TOTAL ADT	5800	27950	3500	3900	7900	2500	26950	6500	7100	14800	9000
TOTAL H. COMM. ADT	300	1614	141	186	371	83	1556	407	286	592	365
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
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2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 3 OF 4

FOR

T.H. 494, 694 S.P. 8285 LENGTH - MILES
COUNTY Washington, Ramsey LOCATION Mississippi River to T.H. 212

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 23 THROUGH 33 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER											
	23	24	25	26	27	28	29	30	31	32	33	
0	27936	5784	4428	29941	26188	6489	4092	28305	8897	12881	8223	
1	497	78	131	450	560	79	136	503	160	161	137	
2	443	54	82	305	324	69	60	436	111	99	84	
3	39	8	5	74	69	9	7	42	3	3	2	
4	141	21	24	135	143	25	30	151	5	14	13	
5	262	41	22	657	615	56	33	288	9	26	25	
6	132	14	8	88	101	23	42	175	15	16	16	
TOTAL ADT	29450	6000	4700	31650	28000	6750	4400	29900	9200	13200	8500	
TOTAL H. COMM. ADT	1514	216	272	1709	1812	261	308	1595	303	319	277	
TOTAL DHV												
DIRECTIONAL DISTRIBUTION												

* VEHICLE TYPE CODE

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1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEM-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 4 OF 4

FOR

T.H. 494, 694 S.P. 8285 LENGTH - MILES
COUNTY Washington, Ramsey LOCATION Mississippi River to T.H. 212

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 34 THROUGH 42 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER											
	34	35	36	37	38	39	40	41	42			
0	5346	24754	2328	5697	10266	16304	370	3039	20138			
1	117	460	90	112	328	405	19	74	351			
2	26	351	35	69	87	143	2	24	273			
3	2	41	1	19	30	54	-	6	27			
4	2	148	10	25	16	50	2	21	136			
5	2	281	1	28	40	79	2	14	268			
6	5	165	35	50	133	165	5	22	107			
TOTAL ADT	5500	26200	2500	6000	10900	17200	400	3200	21300			
TOTAL H. COMM. ADT	154	1446	172	303	634	896	30	161	1162			
TOTAL DHV												
DIRECTIONAL DISTRIBUTION												

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
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2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEM-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

BASIC DATA, METHOD, AND ASSUMPTIONS

The 1985 ADT and DHV are presented in System Planning & Analysis Report M-19 transmitted May 14, 1970. The 25 percent growth factor for 1995 ADT was developed by the Metropolitan Planning Section.

The total heavy commercial ADT was taken from the System 14 heavy commercial study. Vehicle type distributions are based on vehicle type counts made on roads which provide a level of service comparable to this project.